

Lars-Oliver Klotz

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128
papers

9,811
citations

50
h-index

98
g-index

145
ext. papers

10,701
ext. citations

5.4
avg, IF

6.05
L-index

#	Paper	IF	Citations
128	Gadd153 sensitizes cells to endoplasmic reticulum stress by down-regulating Bcl2 and perturbing the cellular redox state. <i>Molecular and Cellular Biology</i> , 2001 , 21, 1249-59	4.8	1516
127	Reactive oxygen species (ROS)-induced ROS release: a new phenomenon accompanying induction of the mitochondrial permeability transition in cardiac myocytes. <i>Journal of Experimental Medicine</i> , 2000 , 192, 1001-14	16.6	1109
126	Redox regulation of FoxO transcription factors. <i>Redox Biology</i> , 2015 , 6, 51-72	11.3	392
125	Cellular responses to nanoparticles: Target structures and mechanisms. <i>Nanotoxicology</i> , 2007 , 1, 52-71	5.3	380
124	Glutathione peroxidase protects against peroxynitrite-mediated oxidations. A new function for selenoproteins as peroxynitrite reductase. <i>Journal of Biological Chemistry</i> , 1997 , 272, 27812-7	5.4	368
123	Lightening up the UV response by identification of the arylhydrocarbon receptor as a cytoplasmatic target for ultraviolet B radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8851-6	11.5	339
122	Evidence that singlet oxygen-induced human T helper cell apoptosis is the basic mechanism of ultraviolet-A radiation phototherapy. <i>Journal of Experimental Medicine</i> , 1997 , 186, 1763-8	16.6	248
121	Role of copper, zinc, selenium and tellurium in the cellular defense against oxidative and nitrosative stress. <i>Journal of Nutrition</i> , 2003 , 133, 1448S-51S	4.1	198
120	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017 , 13, 94-162	11.3	185
119	Central role of Ferrous/Ferric iron in the ultraviolet B irradiation-mediated signaling pathway leading to increased interstitial collagenase (matrix-degrading metalloprotease (MMP)-1) and stromelysin-1 (MMP-3) mRNA levels in cultured human dermal fibroblasts. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5279-87	5.4	177
118	Mitogen-activated protein kinase (p38-, JNK-, ERK-) activation pattern induced by extracellular and intracellular singlet oxygen and UVA. <i>FEBS Journal</i> , 1999 , 260, 917-22		176
117	Free radicals and related reactive species as mediators of tissue injury and disease: implications for Health. <i>Critical Reviews in Toxicology</i> , 2015 , 45, 765-98	5.7	171
116	Selenoproteins: Antioxidant selenoenzymes and beyond. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 595, 113-9	4.1	153
115	1,4-naphthoquinones: from oxidative damage to cellular and inter-cellular signaling. <i>Molecules</i> , 2014 , 19, 14902-18	4.8	136
114	Singlet oxygen-induced signaling effects in mammalian cells. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 88-94	4.2	129
113	Defenses against peroxynitrite: selenocompounds and flavonoids. <i>Toxicology Letters</i> , 2003 , 140-141, 125-32	4.4	121
112	Role of myoglobin in the antioxidant defense of the heart. <i>FASEB Journal</i> , 2004 , 18, 1156-8	0.9	120

111	Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts. <i>Biochemical Journal</i> , 2000 , 352, 219-225	3.8	110
110	Peroxynitrite signaling: receptor tyrosine kinases and activation of stress-responsive pathways. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 737-43	7.8	107
109	Activation pattern of mitogen-activated protein kinases elicited by peroxynitrite: attenuation by selenite supplementation. <i>FEBS Letters</i> , 1999 , 448, 301-3	3.8	107
108	Linking Alzheimer's disease to insulin resistance: the FoxO response to oxidative stress. <i>Molecular Psychiatry</i> , 2010 , 15, 1046-52	15.1	104
107	Protein oxidation and proteolysis by the nonradical oxidants singlet oxygen or peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 1243-53	7.8	101
106	Polyphenols of cocoa: inhibition of mammalian 15-lipoxygenase. <i>Biological Chemistry</i> , 2001 , 382, 1687-96	4.5	101
105	Stimulation of phosphoinositide 3-kinase/Akt signaling by copper and zinc ions: mechanisms and consequences. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 463, 175-82	4.1	99
104	Copper ions strongly activate the phosphoinositide-3-kinase/Akt pathway independent of the generation of reactive oxygen species. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 397, 232-9	4.1	96
103	1,4-Naphthoquinones as inducers of oxidative damage and stress signaling in HaCaT human keratinocytes. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 496, 93-100	4.1	95
102	Selenoprotein P expression is controlled through interaction of the coactivator PGC-1alpha with FoxO1a and hepatocyte nuclear factor 4alpha transcription factors. <i>Hepatology</i> , 2008 , 48, 1998-2006	11.2	94
101	Oxidative modification and nitration of human low-density lipoproteins by the reaction of hypochlorous acid with nitrite. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 343, 254-9	4.1	92
100	Epidermal growth factor receptor is a common mediator of quinone-induced signaling leading to phosphorylation of connexin-43: role of glutathione and tyrosine phosphatases. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38360-7	5.4	91
99	Zinc fingers as biologic redox switches?. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1015-27	8.4	84
98	Chemokine receptors in head and neck cancer: association with metastatic spread and regulation during chemotherapy. <i>International Journal of Cancer</i> , 2006 , 118, 2147-57	7.5	84
97	Selenoprotein P protects low-density lipoprotein against oxidation. <i>Free Radical Research</i> , 2004 , 38, 123-8	3.8	83
96	Epicatechin selectively prevents nitration but not oxidation reactions of peroxynitrite. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 285, 782-7	3.4	80
95	Cellular adaptation to xenobiotics: Interplay between xenosensors, reactive oxygen species and FOXO transcription factors. <i>Redox Biology</i> , 2017 , 13, 646-654	11.3	79
94	Singlet oxygen mediates the activation of JNK by UVA radiation in human skin fibroblasts. <i>FEBS Letters</i> , 1997 , 408, 289-91	3.8	77

93	Epigallocatechin gallate-induced modulation of FoxO signaling in mammalian cells and <i>C. elegans</i> : FoxO stimulation is masked via PI3K/Akt activation by hydrogen peroxide formed in cell culture. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 501, 58-64	4.1	74
92	Phosphoinositide 3-kinase signaling in the cellular response to oxidative stress. <i>Biological Chemistry</i> , 2005 , 386, 207-16	4.5	74
91	Evaluation of sulfur, selenium and tellurium catalysts with antioxidant potential. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 4317-22	3.9	73
90	Stimulation of selenoprotein P promoter activity in hepatoma cells by FoxO1a transcription factor. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 365, 316-21	3.4	65
89	Oxidant-induced signaling: effects of peroxynitrite and singlet oxygen. <i>Biological Chemistry</i> , 2002 , 383, 443-56	4.5	62
88	Protection by organotellurium compounds against peroxynitrite-mediated oxidation and nitration reactions. <i>Biochemical Pharmacology</i> , 1998 , 55, 817-23	6	62
87	Critical role of L-arginine in endothelial cell survival during oxidative stress. <i>Circulation</i> , 2003 , 107, 2607-14	7	59
86	Protein modification elicited by oxidized low-density lipoprotein (LDL) in endothelial cells: protection by (-)-epicatechin. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 955-70	7.8	57
85	Insulin suppresses the production of fibroblast growth factor 23 (FGF23). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5804-5809	11.5	56
84	2-Methyl-1,4-naphthoquinone, vitamin K(3), decreases gap-junctional intercellular communication via activation of the epidermal growth factor receptor/extracellular signal-regulated kinase cascade. <i>Cancer Research</i> , 2002 , 62, 4922-8	10.1	55
83	Modifications of glyceraldehyde-3-phosphate dehydrogenase induced by increasing concentrations of peroxynitrite: early recognition by 20S proteasome. <i>Biological Chemistry</i> , 2003 , 384, 237-41	4.5	53
82	Comparing nitrosative versus oxidative stress toward zinc finger-dependent transcription. Unique role for NO. <i>Journal of Biological Chemistry</i> , 2002 , 277, 13294-301	5.4	53
81	The proteasome is an integral part of solar ultraviolet a radiation-induced gene expression. <i>Journal of Biological Chemistry</i> , 2009 , 284, 30076-86	5.4	52
80	Modulation of FoxO signaling in human hepatoma cells by exposure to copper or zinc ions. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 454, 107-13	4.1	52
79	Amphiphilic properties of (-)-epicatechin and their significance for protection of cells against peroxynitrite. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 307, 69-73	3.4	52
78	Role of HuR and p38MAPK in ultraviolet B-induced post-transcriptional regulation of COX-2 expression in the human keratinocyte cell line HaCaT. <i>Journal of Biological Chemistry</i> , 2010 , 285, 3896-3904	5.4	47
77	Functional analysis of the glutathione S-transferase 3 from <i>Onchocerca volvulus</i> (Ov-GST-3): a parasite GST confers increased resistance to oxidative stress in <i>Caenorhabditis elegans</i> . <i>Journal of Molecular Biology</i> , 2003 , 325, 25-37	6.5	46
76	Peroxynitrite activates the phosphoinositide 3-kinase/Akt pathway in human skin primary fibroblasts. <i>Biochemical Journal</i> , 2000 , 352, 219	3.8	46

75	Flavonoids as Putative Inducers of the Transcription Factors Nrf2, FoxO, and PPAR. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 4397340	6.7	44
74	Contribution of UVB and UVA to UV-dependent stimulation of cyclooxygenase-2 expression in artificial epidermis. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 257-62	4.2	44
73	Non-linear impact of glutathione depletion on <i>C. elegans</i> life span and stress resistance. <i>Redox Biology</i> , 2017 , 11, 502-515	11.3	40
72	Irradiation of cells with ultraviolet-A (320-400 nm) in the presence of cell culture medium elicits biological effects due to extracellular generation of hydrogen peroxide. <i>Free Radical Research</i> , 2003 , 37, 391-7	4	37
71	HuR regulates gap junctional intercellular communication by controlling beta-catenin levels and adherens junction integrity. <i>Hepatology</i> , 2009 , 50, 1567-76	11.2	36
70	Singlet oxygen inactivates protein tyrosine phosphatase-1B by oxidation of the active site cysteine. <i>Biological Chemistry</i> , 2006 , 387, 1399-404	4.5	35
69	Protection against peroxynitrite by selenoproteins. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1998 , 53, 228-32	1.7	35
68	Posttranscriptional regulation of FOXO expression: microRNAs and beyond. <i>British Journal of Pharmacology</i> , 2017 , 174, 1514-1532	8.6	34
67	Nitrotyrosine and protein carbonyls are equally distributed in HT22 cells after nitrosative stress. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 773-86	7.8	34
66	Singlet oxygen-induced attenuation of growth factor signaling: possible role of ceramides. <i>Free Radical Research</i> , 2004 , 38, 729-37	4	34
65	Peroxynitrite: From interception to signaling. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 595, 153-60	4.1	34
64	Identification of cytosolic leucyl aminopeptidase (EC 3.4.11.1) as the major cysteinylglycine-hydrolysing activity in rat liver. <i>Biological Chemistry</i> , 2003 , 384, 213-8	4.5	33
63	Defenses against peroxynitrite. <i>Methods in Enzymology</i> , 1999 , 301, 301-11	1.7	33
62	Thalidomide resistance is based on the capacity of the glutathione-dependent antioxidant defense. <i>Molecular Pharmaceutics</i> , 2008 , 5, 1138-44	5.6	32
61	(-)-Epicatechin inhibits nitration and dimerization of tyrosine in hydrophilic as well as hydrophobic environments. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 289, 1334-8	3.4	32
60	Acute and long-term effects of arsenite in HepG2 cells: modulation of insulin signaling. <i>BioMetals</i> , 2014 , 27, 317-32	3.4	26
59	Mitogen-activated protein kinase activation by singlet oxygen and ultraviolet A. <i>Methods in Enzymology</i> , 2000 , 319, 130-43	1.7	26
58	Posttranscriptional regulation of connexin-43 expression. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 524, 23-9	4.1	25

57	Extracellular generation of hydrogen peroxide is responsible for activation of EGF receptor by ultraviolet A radiation. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 1478-87	7.8	25
56	Nickel and copper ion-induced stress signaling in human hepatoma cells: analysis of phosphoinositide 3Kinase/Akt signaling. <i>BioMetals</i> , 2009 , 22, 307-16	3.4	24
55	Activation of ErbB2 by 2-methyl-1,4-naphthoquinone (menadione) in human keratinocytes: role of EGFR and protein tyrosine phosphatases. <i>FEBS Letters</i> , 2006 , 580, 1859-64	3.8	24
54	Multifaceted functions of the forkhead box transcription factors FoxO1 and FoxO3 in skin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1057-1064	4	23
53	Signaling effects of menadione: from tyrosine phosphatase inactivation to connexin phosphorylation. <i>Methods in Enzymology</i> , 2004 , 378, 258-72	1.7	23
52	Doxorubicin induces EGF receptor-dependent downregulation of gap junctional intercellular communication in rat liver epithelial cells. <i>Biological Chemistry</i> , 2005 , 386, 217-23	4.5	23
51	Methylated pentavalent arsenic metabolites are bifunctional inducers, as they induce cytochrome P450 1A1 and NAD(P)H:quinone oxidoreductase through AhR- and Nrf2-dependent mechanisms. <i>Free Radical Biology and Medicine</i> , 2014 , 67, 171-87	7.8	21
50	Regulation of glucose-6-phosphatase gene expression by insulin and metformin. <i>Hormone and Metabolic Research</i> , 2009 , 41, 730-5	3.1	21
49	Quinone-induced Cdc25A inhibition causes ERK-dependent connexin phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 327, 1016-23	3.4	21
48	High efficiency of 5-aminolevulinate-photodynamic treatment using UVA irradiation. <i>Carcinogenesis</i> , 2001 , 22, 879-83	4.6	21
47	Arsenite-induced stress signaling: modulation of the phosphoinositide 3Kinase/Akt/FoxO signaling cascade. <i>Redox Biology</i> , 2013 , 1, 104-9	11.3	20
46	Different susceptibility of malignant versus nonmalignant human T cells toward ultraviolet A-1 radiation-induced apoptosis. <i>Journal of Investigative Dermatology</i> , 2004 , 122, 477-83	4.3	20
45	Selenium-binding protein 1 (SELENBP1) is a marker of mature adipocytes. <i>Redox Biology</i> , 2019 , 20, 489-495	11.3	20
44	Selenenyl iodide: a new substrate for mammalian thioredoxin reductase. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2848-52	3.9	19
43	The GID ubiquitin ligase complex is a regulator of AMPK activity and organismal lifespan. <i>Autophagy</i> , 2020 , 16, 1618-1634	10.2	19
42	Heavy metal ion-induced insulin-mimetic signaling. <i>Redox Report</i> , 2009 , 14, 141-6	5.9	17
41	Ceruloplasmin expression in rat liver cells is attenuated by insulin: role of FoxO transcription factors. <i>Hormone and Metabolic Research</i> , 2011 , 43, 268-74	3.1	17
40	Insulin-like modulation of Akt/FoxO signaling by copper ions is independent of insulin receptor. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 558, 42-50	4.1	16

39	Loss of gap junctional intercellular communication in rat lung epithelial cells exposed to carbon or silica-based nanoparticles. <i>Biological Chemistry</i> , 2010 , 391, 1333-9	4.5	15
38	Epidermal growth factor- and stress-induced loss of gap junctional communication is mediated by ERK-1/ERK-2 but not ERK-5 in rat liver epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 364, 313-7	3.4	14
37	Dicumarol is a potent reversible inhibitor of gap junctional intercellular communication. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 434, 241-7	4.1	14
36	Inhibition of heme oxygenase-1 partially reverses the arsenite-mediated decrease of CYP1A1, CYP1A2, CYP3A23, and CYP3A2 catalytic activity in isolated rat hepatocytes. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 504-14	4	12
35	Rac upregulates tissue inhibitor of metalloproteinase-1 expression by redox-dependent activation of extracellular signal-regulated kinase signaling. <i>FEBS Journal</i> , 2006 , 273, 4754-69	5.7	12
34	Detection of a functional xenobiotic response element in a widely employed FoxO-responsive reporter construct. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 516, 138-45	4.1	10
33	Cellular Generation of Oxidants: Relation to Oxidative Stress	4.5-6.1	8
32	Loss of gap junctional intercellular communication in rat lung epithelial cells exposed to quartz particles. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 390, 44-7	3.4	8
31	Nuclear trapping of inactive FOXO1 by the Nrf2 activator diethyl maleate. <i>Redox Biology</i> , 2019 , 20, 19-27	11.3	8
30	A <i>Caenorhabditis elegans</i> ortholog of human selenium-binding protein 1 is a pro-aging factor protecting against selenite toxicity. <i>Redox Biology</i> , 2020 , 28, 101323	11.3	8
29	FOXO1 cysteine-612 mediates stimulatory effects of the coregulators CBP and PGC1 α on FOXO1 basal transcriptional activity. <i>Free Radical Biology and Medicine</i> , 2018 , 118, 98-107	7.8	6
28	Selenoprotein P. <i>Methods in Enzymology</i> , 2002 , 347, 121-5	1.7	6
27	Signaling by Singlet Oxygen in Biological Systems	3-20	6
26	Reactivity of lipophilic diSchiff-Base coordinated copper in rat hepatocytes. <i>Biochemical Pharmacology</i> , 1996 , 51, 919-29	6	6
25	Sugar-derived AGEs accelerate pharyngeal pumping rate and increase the lifespan of. <i>Free Radical Research</i> , 2019 , 53, 1056-1067	4	5
24	Differential capability of metabolic substrates to promote hepatocellular lipid accumulation. <i>European Journal of Nutrition</i> , 2019 , 58, 3023-3034	5.2	5
23	Reversible conversion of nitroxyl anion to nitric oxide. <i>Methods in Enzymology</i> , 2002 , 349, 101-6	1.7	4
22	Stress and biological aging: A double-edged sword. <i>Zeitschrift Fur Gerontologie Und Geriatrie</i> , 2015 , 48, 505-10	2.7	3

21	Label-free molecular mapping and assessment of glycogen in <i>C. elegans</i> . <i>Analyst, The</i> , 2019 , 144, 2367-2374	3
20	FOXO transcription factors in antioxidant defense. <i>IUBMB Life</i> , 2021 ,	4-7 3
19	Loss of the tyrosyl radical in mouse ribonucleotide reductase by (-)-epicatechin. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 326, 614-7	3-4 2
18	Activation of JNK and P38 but not ERK map kinases in human skin cells by 5-aminolevulinate PDT, UVA and singlet oxygen. <i>Journal of Dermatological Science</i> , 1998 , 16, S153	4-3 2
17	FoxO transcription factors in the control of redox homeostasis and fuel metabolism 2020 , 315-330	2
16	Reactive Oxygen Species as Initiators and Mediators of Cellular Signaling Processes. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 149-171	1
15	Selenium for Prevention and Mitigation of Oxidative Stress-related Diseases in the Gastrointestinal Tract 2017 , 229-242	1
14	Modulation of cellular thiol status affects FoxO activity and life span. <i>Free Radical Biology and Medicine</i> , 2014 , 75 Suppl 1, S53	7-8 1
13	Signal transduction, receptors, mediators and genes: younger than ever - the 13th meeting of the Signal Transduction Society focused on aging and immunology. <i>Cell Communication and Signaling</i> , 2010 , 8, 2	7-5 1
12	Selenite-induced Expression of a <i>Caenorhabditis elegans</i> Pro-aging Factor and Ortholog of Human Selenium-binding Protein 1. <i>Current Nutraceuticals</i> , 2020 , 1, 73-79	0-7 1
11	On the Biochemistry of Antioxidants: Current Aspects. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 383-396	1
10	Activation of Nrf2 by Electrophiles Is Largely Independent of the Selenium Status of HepG2 Cells. <i>Antioxidants</i> , 2021 , 10,	7-1 1
9	A coupled enzyme assay for detection of selenium-binding protein 1 (SELENBP1) methanethiol oxidase (MTO) activity in mature enterocytes. <i>Redox Biology</i> , 2021 , 43, 101972	11-3 0
8	FOXO Transcription Factors: Regulators of Metabolism and Stress Resistance. <i>Proceedings (mdpi)</i> , 2019 , 11, 11	0-3
7	An Overview of Free Radicals as Causes and Consequences of Toxicity. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 21-27	
6	Selenium and the Protection Against Peroxynitrite 2002 , 71-76	
5	A New Function for Selenoproteins: Peroxynitrite Reduction 1999 , 87-101	
4	Modulation and Determination of Cellular Glutathione Concentrations 2008 , 45-54	

- 3 UV-induced Signaling: Role of Reactive Oxygen Species. *Oxidative Stress in Applied Basic Research and Clinical Practice*, **2015**, 335-345
- 2 Oxidative Stress, Antioxidants, and Chemoprevention: On the Role of Oxidant-Induced Signaling in Cellular Adaptation **2014**, 119-146
- 1 Cellular Aging and Tumor Regulation. *Healthy Ageing and Longevity*, **2016**, 187-201 0.5